

EASEEbot: Robotic Envelope Assessment System for Energy Efficiency

Needs and Challenges

Envelope Accessibility

- How to get easier access to roof/attic/wall?
- How to enhance inspector safety?

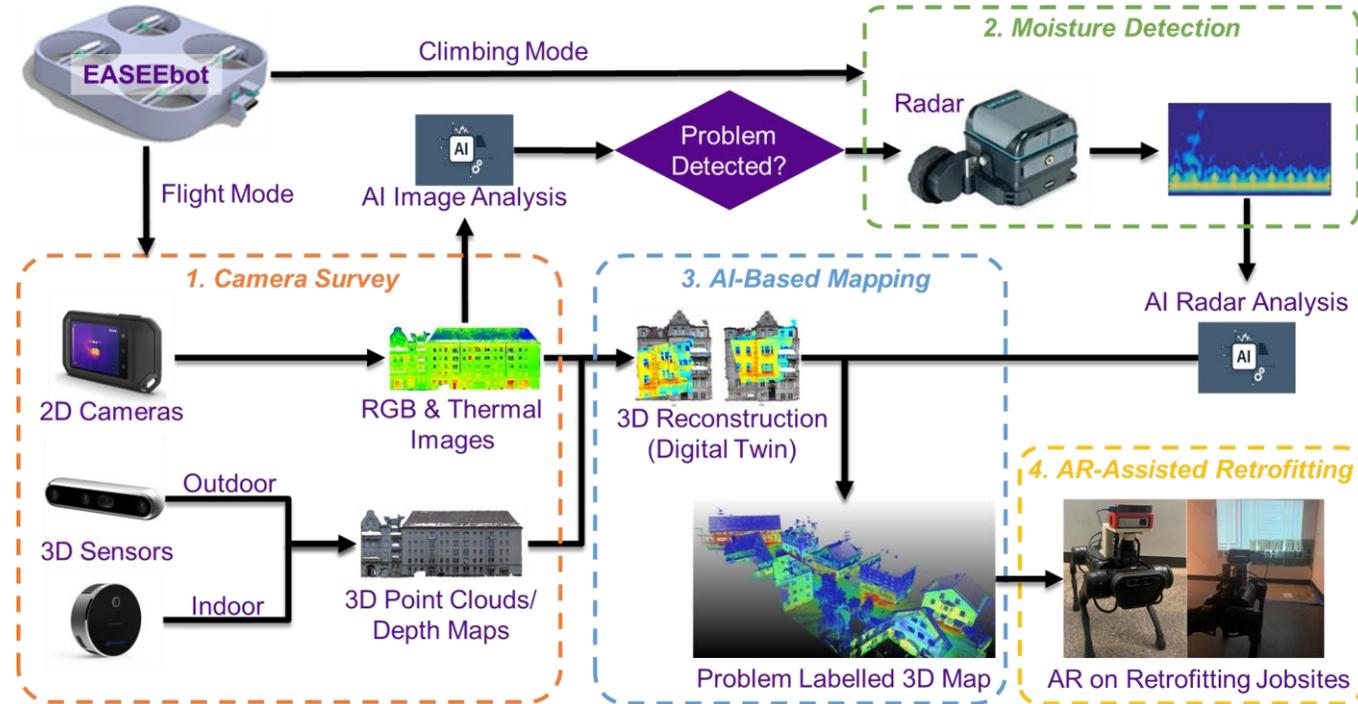
Moisture & Air Leakage Detection

- How to interpret the thermal/radar images?
- How to standardize visual inspection analysis?

Retrofit Information Retrieval

- Where are the envelope failures?
- Where should targeted retrofits be done?

Our Solution



Our Team and Partners

Two NYU research labs with +20 years of experience in:

- AI (Computer Vision, 3D Mapping)
- Robotics (Mechatronics, Drone)
- Building informatics/BIM
- Energy efficiency

Multiple Industry Partners ready for pilot tests:

- Property Managers
- Building Scientists

